

IN THE CLAIMS

The following listing of claims replaces all prior versions and listings of claims in the present application.

Listing of claims:

1. (Currently Amended) A data distribution system comprising a first terminal having data and a second terminal, wherein the system distributes data ~~adapting to~~ configured for the second terminal from the first terminal to the second terminal,

wherein the first terminal comprises:

a data ~~recording means~~ recorder that records data of a plurality of formats;

a data distribution request ~~receiving means~~ receiver that receives a distribution request ~~of~~ for data adapting to in a format configured for the second terminal and that receives a URL, the URL comprising an address at which capability information of the second terminal is recorded, the URL being transmitted from the second terminal;

a terminal information ~~acquiring means~~ acquirer that accesses the location defined by the URL and acquires the capability information of the second terminal from the address identified by the URL;

a data ~~selecting means~~ selector that selects data ~~adapting to~~ in a format configured for the second terminal on the basis of the acquired capability information of the second terminal; and

a data ~~transmitting means~~ transmitter that transmits the selected data to the second terminal, and

wherein the second terminal comprises:

a terminal information ~~describing means~~ describer that describes the capability information of the second terminal in tree structure;

a ~~URL recording means~~ transmitter that transmits the capability information of the second terminal, described in tree structure, to a predetermined URL; ~~to~~

~~record~~ a recorder that records the capability information of the second terminal at the URL;

a data distribution ~~request means~~ requestor that requests the first terminal to distribute data ~~adapting to~~ configured for the second terminal and that notifies the first terminal of the URL at which the capability information of the second terminal is recorded; and

a data ~~receiving means~~ receiver that receives the data from the first terminal.

2. (Currently Amended) A first terminal in a data distribution system that distributes data ~~adapting to~~ configured for a second terminal from the first terminal having the data to the second terminal, the first terminal comprising:

a data ~~recording means~~ recorder that records data of a plurality of formats;

a data distribution request ~~receiving means~~ receiver that receives a distribution request ~~of~~ for data adapting to in a format configured for the second terminal and that receives a URL, the URL comprising an address at which ~~the~~ capability information of the second terminal is recorded, the URL being transmitted from the second terminal;

a terminal information ~~acquiring means~~ acquirer that accesses the location defined by the URL and acquires the capability information of the second terminal from the address defined by the URL;

a data ~~selecting means~~ selector that selects ~~the data adapting to~~ in a format configured for the ~~other~~ second terminal on the basis of the acquired capability information of the second terminal; and

a data ~~transmitting means~~ transmitter that transmits the selected data to the second terminal.

3. (Currently Amended) A second terminal in a data distribution system that distributes data ~~adapting to~~ configured for the second terminal from a first terminal having data to the second terminal, the second terminal comprising:

a terminal information ~~describing means~~ describer that describes capability information of the second terminal in tree structure;

a ~~URL recording means~~ transmitter that transmits the capability information of the second terminal, described in tree structure, to a predetermined URL, the URL comprising an address configured to record the capability information of the second terminal; and

a recorder that records the capability information of the second terminal at the URL;

a data distribution ~~request means~~ requester that requests the first terminal to distribute data ~~adapting to~~ configured for the second terminal and that notifies the ~~first~~ first terminal of the URL at which the capability information of the second terminal is recorded; and

a data ~~receiving means~~ receiver that receives the data from the first terminal.

4. (Currently Amended) A ~~third~~ terminal that, in a data distribution system that distributes data ~~adapting to~~ configured for a second terminal, from a first terminal having data to the second terminal, has the terminal comprising a location defined by a URL which can be accessed by the first and second terminals and records capability information of the second terminal, the terminal comprising:

a terminal information ~~receiving means~~ receiver that receives a tree structure description of the capability information of the ~~first~~ second terminal from the second terminal;

a terminal information ~~recording means~~ recorder that records information of the second terminal; and

a terminal information ~~transmission means~~ transmitter that transmits the information of the second terminal to the first terminal in response to a distribution request ~~of~~ for the capability information of the second terminal, the distribution request being received from the first terminal.

5. (Currently Amended) A data request method in a second terminal in a data distribution system that distributes data, ~~adapting to~~ configured for the second terminal, from a first terminal having data to the second terminal, the method comprising ~~the steps of:~~

constructing the second terminal;

describing capability information of the second terminal in a tree structure;

transmitting the capability information of the second terminal described in the tree structure to a location defined by a predetermined URL to record the capability information at the URL;

requesting the first terminal to distribute data ~~adapting to~~ configured for the second terminal and notifying the first terminal of the URL at which the capability informatics of ~~from~~ the second terminal is recorded; and

receiving data from the first terminal.

6. (Currently Amended) The data request method according to claim 5, wherein as the information of the second terminal described in tree structure, information related to ~~basic~~ characteristics of the second terminal, information related to an AV coding capability of the

second terminal, and ~~pieces~~ items of information related to a multimedia input/output of the second terminal are branched and described as branch information.

7. (Currently Amended) The data request method according to claim 5, comprising ~~the steps~~ of:

selecting some branch information in tree structure of the capability information of the second terminal; and

notifying the first terminal of a URL related to the selected branch information to request the first terminal to distribute data to the second terminal.

8. (Currently Amended) The data request method according to claim 5, ~~comprising the steps~~ of wherein constructing the second terminal comprises:

constructing the second terminal by selecting a CPU, an OS, a memory, an output, and a VM (virtual machine) with respect to general characteristics;

constructing the second terminal by selecting USB, BlueTooth, wireless802, and a serial or parallel data I/O (data input/output);

constructing the second terminal by selecting, as a storage medium, ~~such as~~ at least one of a MultiMedia card (MMC), a Compact Flash (registered trademark), a Secure Disk (SD), a MemoryStick (MS), a hard disk (HD), a DVD, a VCD, a Zip disk, ~~or~~ and a flexible disk;

constructing the second terminal by selecting, as a supporting tool ~~such as~~, at least one of a global positioning system (GPS), a Browser, Intellectual Property Management and Protection tools (IPMP tools), an RELtool (Rights Expression Language Tool), ~~or~~ and a meta data tool;

constructing the second terminal according to a predetermined AV decoding format;

constructing the second terminal according to a predetermined image format supporting;

constructing the second terminal according to a predetermined text format supporting;

constructing the second terminal according to a predetermined system format supporting;

constructing the second terminal by providing a predetermined audio output for reproducing sound or voice;

constructing the second terminal by providing a predetermined video output for displaying a video or an image; and

constructing the second terminal by providing a predetermined text output for displaying a text.

9. (Currently Amended) The data request method according to claim 8, wherein the ~~method~~ of constructing of the second terminal ~~further includes the steps of~~ comprises:

constructing the second terminal according to a predetermined AV encoding format;

constructing the second terminal by providing a predetermined audio input for acquiring sound or voice;

constructing the second terminal by providing a predetermined video input for acquiring a video or an image; and

constructing the second terminal by providing a predetermined text input for inputting a text.

10. (Currently Amended) The data request method according to claim 8, wherein ~~the step of~~ constructing the second terminal according to the predetermined AV decoding format ~~further includes the steps of~~ comprises:

selecting an audio decoding supporting format;

selecting a video decoding supporting format;

determining a bit rate for audio decoding;

determining a bit rate for video decoding;

- determining the maximum bit rate for audio decoding in coding at a variable bit rate;
- determining the maximum bit rate for video coding in coding at a variable bit rate;
- determining an average bit rate for audio decoding in coding at a variable bit rate;
- determining an average bit rate for video decoding in coding at a variable bit rate; and
- determining a limited buffer size for audio or video decoding.

11. (Currently Amended) The data request method according to claim 9, wherein ~~the step of~~ constructing the second terminal according to the predetermined AV encoding format further ~~includes the steps of~~ comprises:

- selecting an audio encoding supporting format;
- selecting a video encoding supporting format;
- determining a bit rate for audio encoding;
- determining a bit rate for video encoding;
- determining the maximum bit rate for audio encoding in coding at a variable bit rate;
- determining the maximum bit rate for video encoding in coding at a variable bit rate;
- determining an average bit rate for audio encoding in coding at a variable bit rate;
- determining an average bit rate for video encoding in coding at a variable bit rate; and
- determining a limited buffer size for audio or video encoding.

12. (Currently Amended) The data request method according to claim 8, wherein ~~the step of~~ constructing the second terminal according to the predetermined system format further ~~includes~~ the steps of comprises:

- selecting MPEG2 system format supporting;
- selecting MPEG4 system format supporting;
- selecting predetermined file format supporting; and

selecting predetermined communication protocol supporting.

13. (Currently Amended) The data request method according to claim 8, wherein ~~the step of~~ selecting the MPEG2 system format supporting further ~~includes the steps of~~ comprises:

determining MPEG2 transport system (TS) format supporting; and

determining MPEG2 program system (PS) format supporting.

14. (Currently Amended) The data request method according to claim 12, wherein ~~the step of~~ selecting the MPEG4 system format supporting further ~~includes the steps of~~ comprises:

determining format supporting of MPEG4 system part 1;

determining format supporting of MPEG4 system part 11;

determining format supporting of MPEG4 system part 12;

determining format supporting of MPEG4 system part 13;

determining format supporting of MPEG4 system part 14;

determining format supporting of MPEG4 system part 15; and

determining format supporting of MPEG4 system part 16.

15. (Currently Amended) The data request method according to claim 12, wherein ~~the step of~~ selecting the predetermined file format supporting further ~~includes the steps of~~ comprises:

determining MP4 file format supporting;

determining QuickTime file format supporting;

determining AVi file format supporting;

determining MP2 file format supporting;

determining MP21 file format supporting;

determining ASF file format supporting;

determining another file format used in another area; and

determining a future file format.

16. (Currently Amended) The data request method according to claim 12, wherein ~~the step of~~ selecting the predetermined communication protocol further ~~includes the steps of~~ comprises:

determining RTP protocol supporting;

determining H.323 protocol supporting;

determining SIP protocol supporting;

determining HTTP protocol supporting;

determining TCP/IP protocol supporting; and

determining another protocol supporting.

17. (Currently Amended) A data distribution method ~~in~~ for a first terminal in a data distribution system that distributes data ~~adapting to~~ configured for a second terminal, from a first terminal having data, to the second terminal, the method ~~comprising the steps of~~:

receiving a distribution request ~~of~~ for data ~~adapting to~~ configured for the second terminal from the second terminal and receiving a URL from the second terminal, the URL comprising an address at which ~~related to~~ capability information of the second terminal is recorded;

acquiring capability information of the second terminal described in a tree structure from the location defined by the URL;

selecting data ~~adapting to~~ configured for the second terminal on the basis of the acquired capability information; and

transmitting the selected data to the second terminal.

18. (Currently Amended) The data distribution method according to claim 17, wherein as the information of the second terminal described in tree structure, information related to ~~basic~~ characteristics of the second terminal, information related to an AV coding capability of the

second terminal, and ~~pieces~~ items of information related to a multimedia input/output of the second terminal are branched and described as branch information.

19. (Currently Amended) The data distribution method according to claim 17, wherein ~~the step of selecting data adapting to~~ configured for the second terminal on the basis of the acquired information in the first terminal comprises ~~includes the steps of:~~

parsing the capability information of the second terminal described in tree structure and obtained from the URL;

selecting data ~~adapting to~~ configured for the second terminal on the basis of branch information described in tree structure and obtained by the parsing.